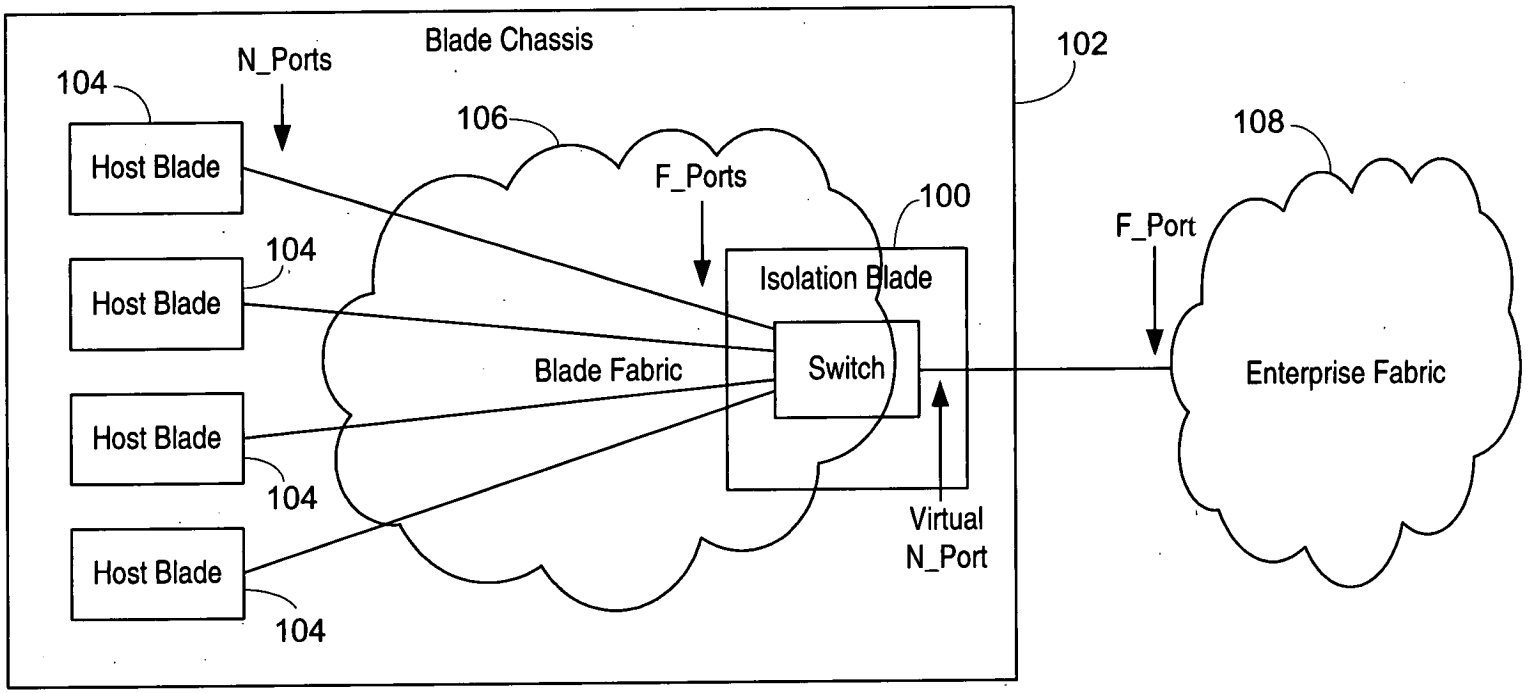

Blade Chassis
102
N_Ports
104
Host Blade
106
F_Ports
100
Isolation Blade
Switch
Blade Fabric
Virtual
N_Port
108
F_Port
Enterprise Fabric

FIG. 1

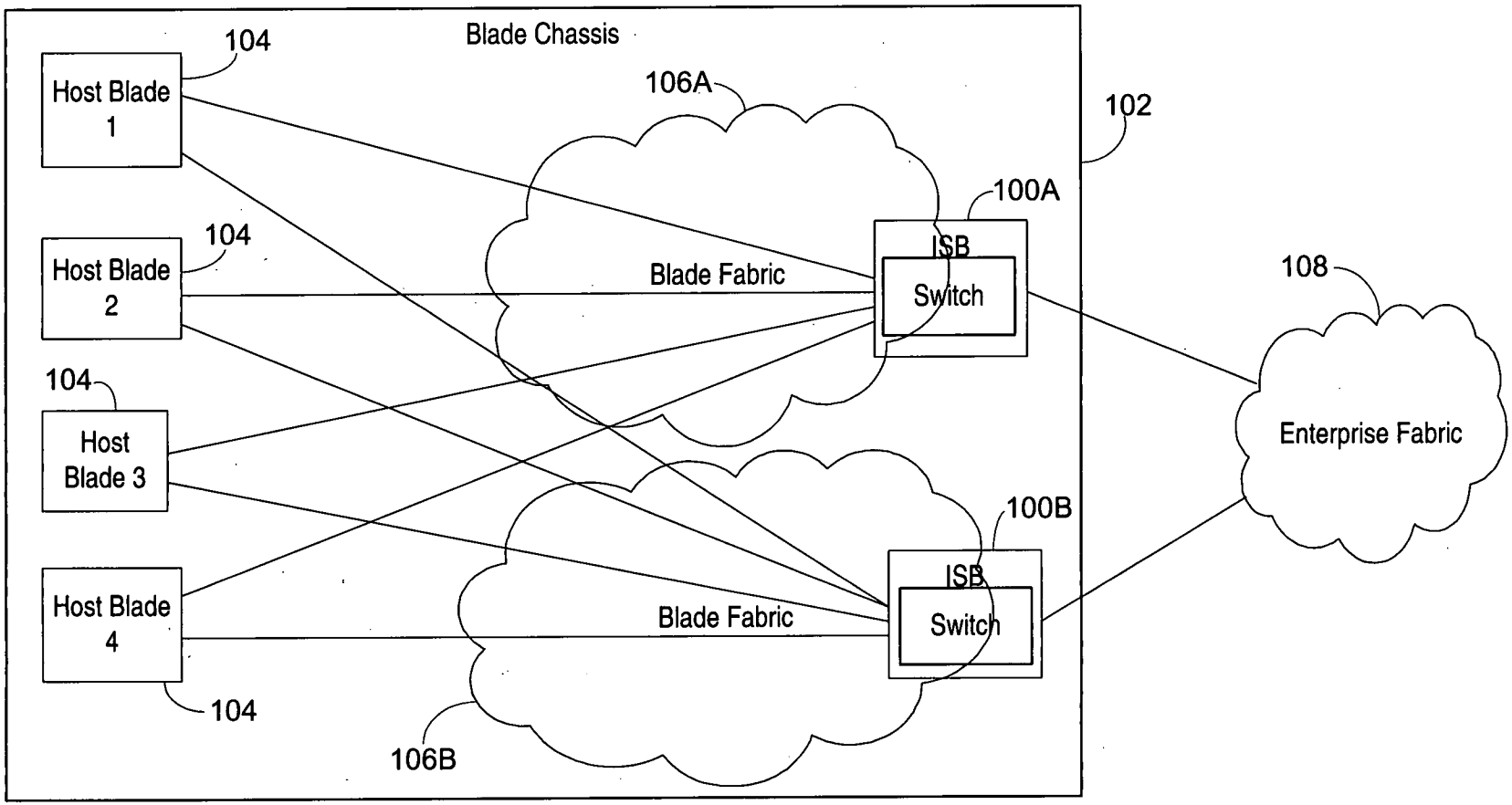

Blade Chassis
104
Host Blade 1
104
Host Blade 2
104
Host Blade 3
Host Blade 4
104
106A
106B
102
100A
ISB
Switch
Blade Fabric
100B
ISB
Switch
Blade Fabric
108
Enterprise Fabric

FIG. 2

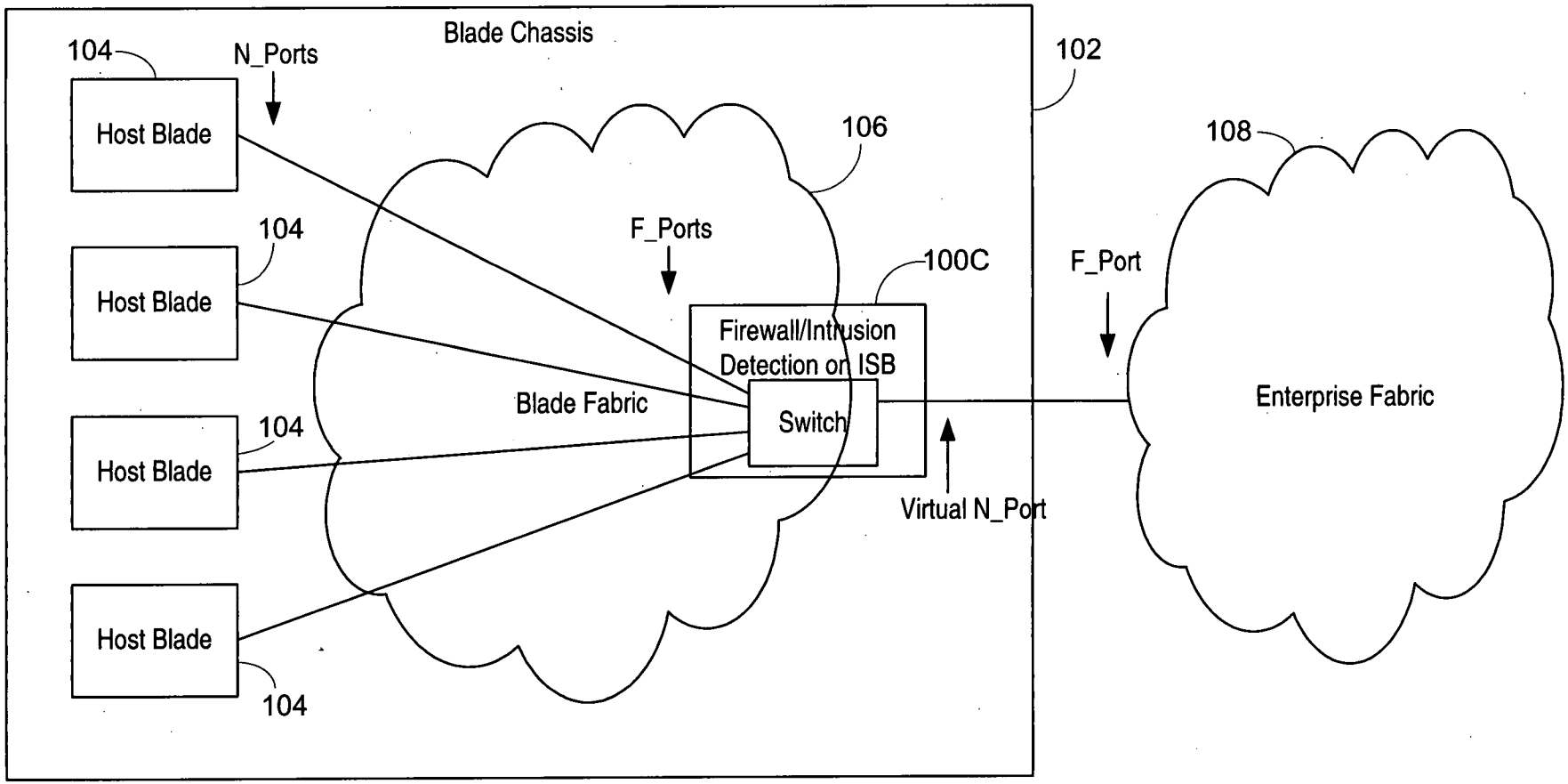

Blade Chassis
102
104
N_Ports
Host Blade
104
Host Blade
104
Host Blade
104
Host Blade
106
F_Ports
100C
Firewall/Intrusion
Detection on ISB
Switch
Blade Fabric
Virtual N_Port
F_Port
108
Enterprise Fabric

FIG. 3

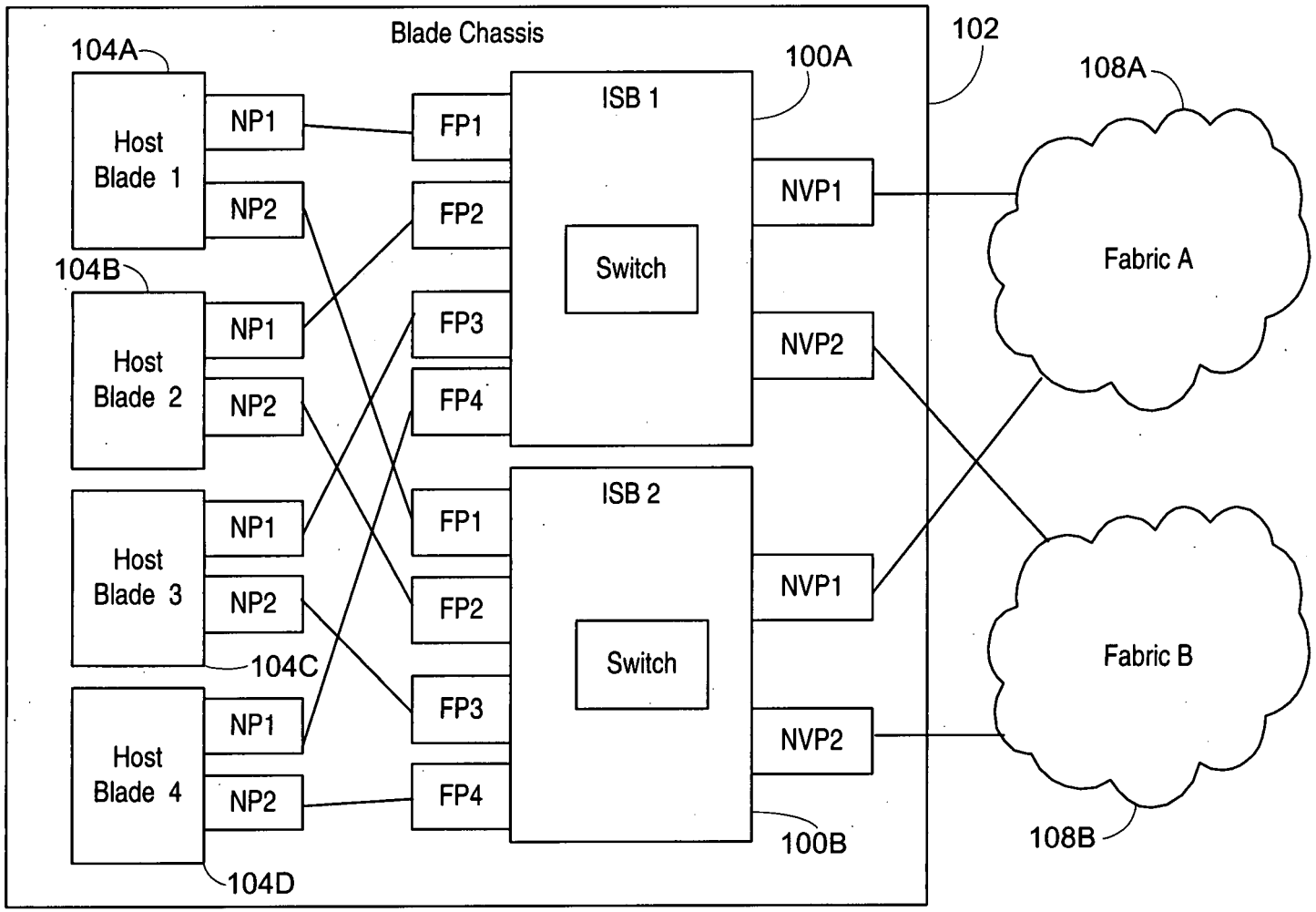

Blade Chassis
102
104A
Host Blade 1
NP1
NP2
104B
Host Blade 2
NP1
NP2
Host Blade 3
NP1
NP2
104C
Host Blade 4
NP1
NP2
104D
FP1
FP2
FP3
FP4
FP1
FP2
FP3
FP4
ISB 1
100A
Switch
ISB 2
Switch
100B
NVP1
NVP2
NVP1
NVP2
108A
Fabric A
Fabric B
108B

FIG. 4

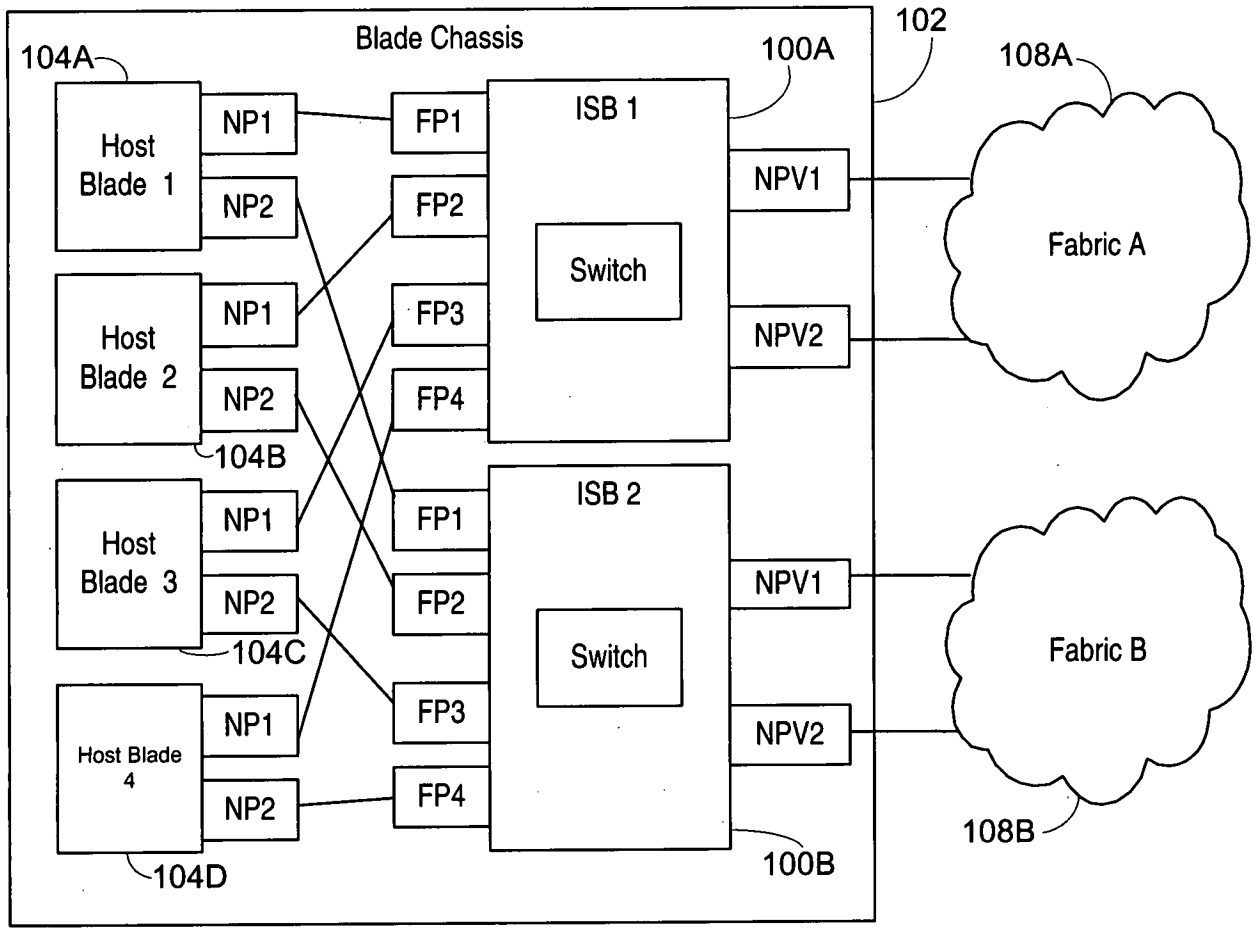

Blade Chassis
102
104A
100A
108A
Host Blade 1
NP1
NP2
FP1
FP2
ISB 1
Switch
NPV1
NPV2
Fabric A
Host Blade 2
NP1
NP2
FP3
FP4
104B
Host Blade 3
NP1
NP2
FP1
FP2
ISB 2
Switch
NPV1
NPV2
Fabric B
104C
Host Blade 4
NP1
NP2
FP3
FP4
108B
104D
100B

FIG. 5

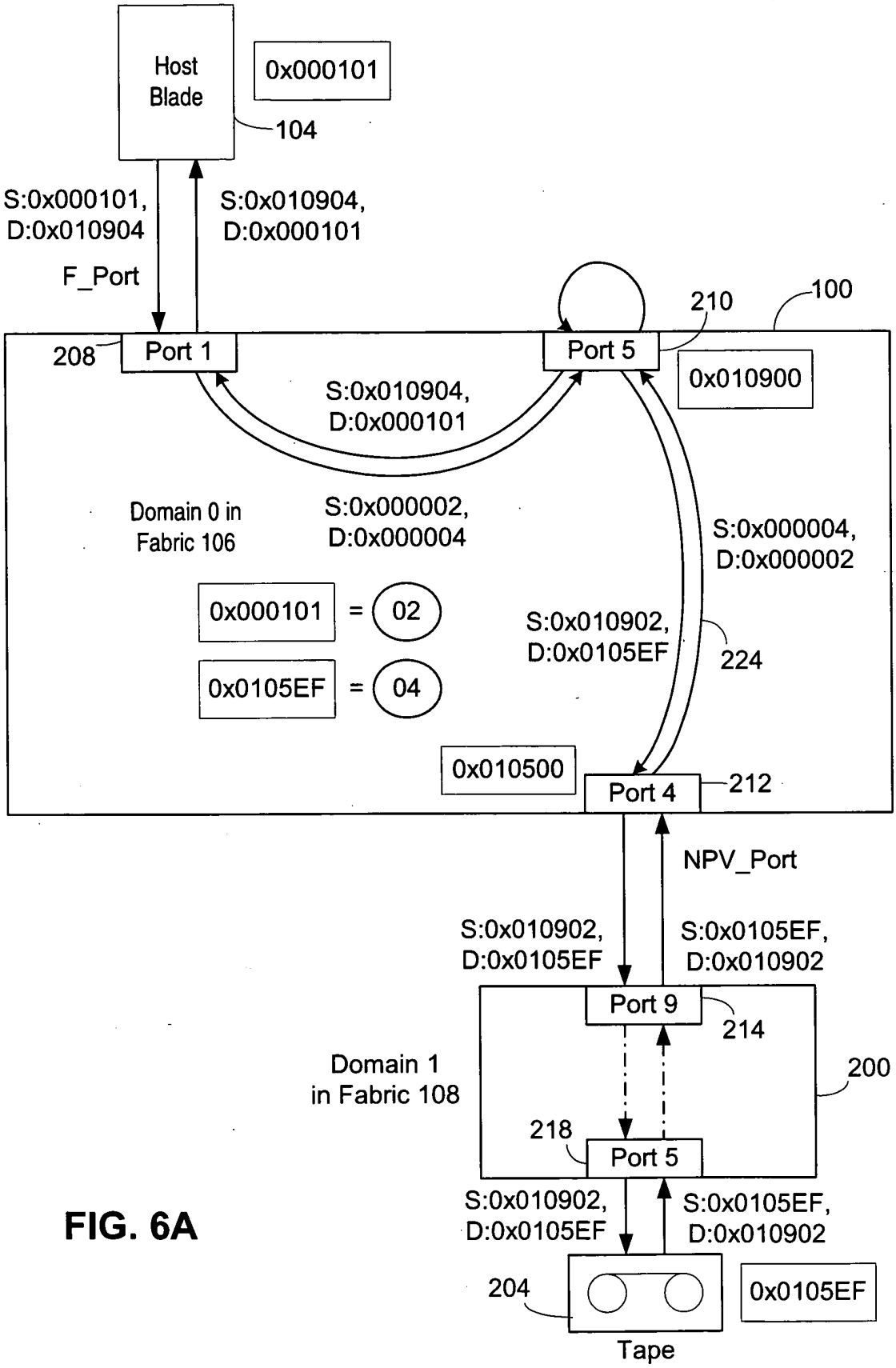

Host Blade
0x000101
104
S:0x000101, D:0x010904
S:0x010904, D:0x000101
F_Port
208
Port 1
210
100
Port 5
0x010900
S:0x010904, D:0x000101
Domain 0 in Fabric 106
S:0x000002, D:0x000004
S:0x000004, D:0x000002
0x000101 = 02
0x0105EF = 04
S:0x010902, D:0x0105EF
224
0x010500
Port 4
212
NPV_Port
S:0x010902, D:0x0105EF
S:0x0105EF, D:0x010902
Port 9
214
Domain 1 in Fabric 108
200
218
Port 5
S:0x010902, D:0x0105EF
S:0x0105EF, D:0x010902
204
0x0105EF
Tape

FIG. 6A

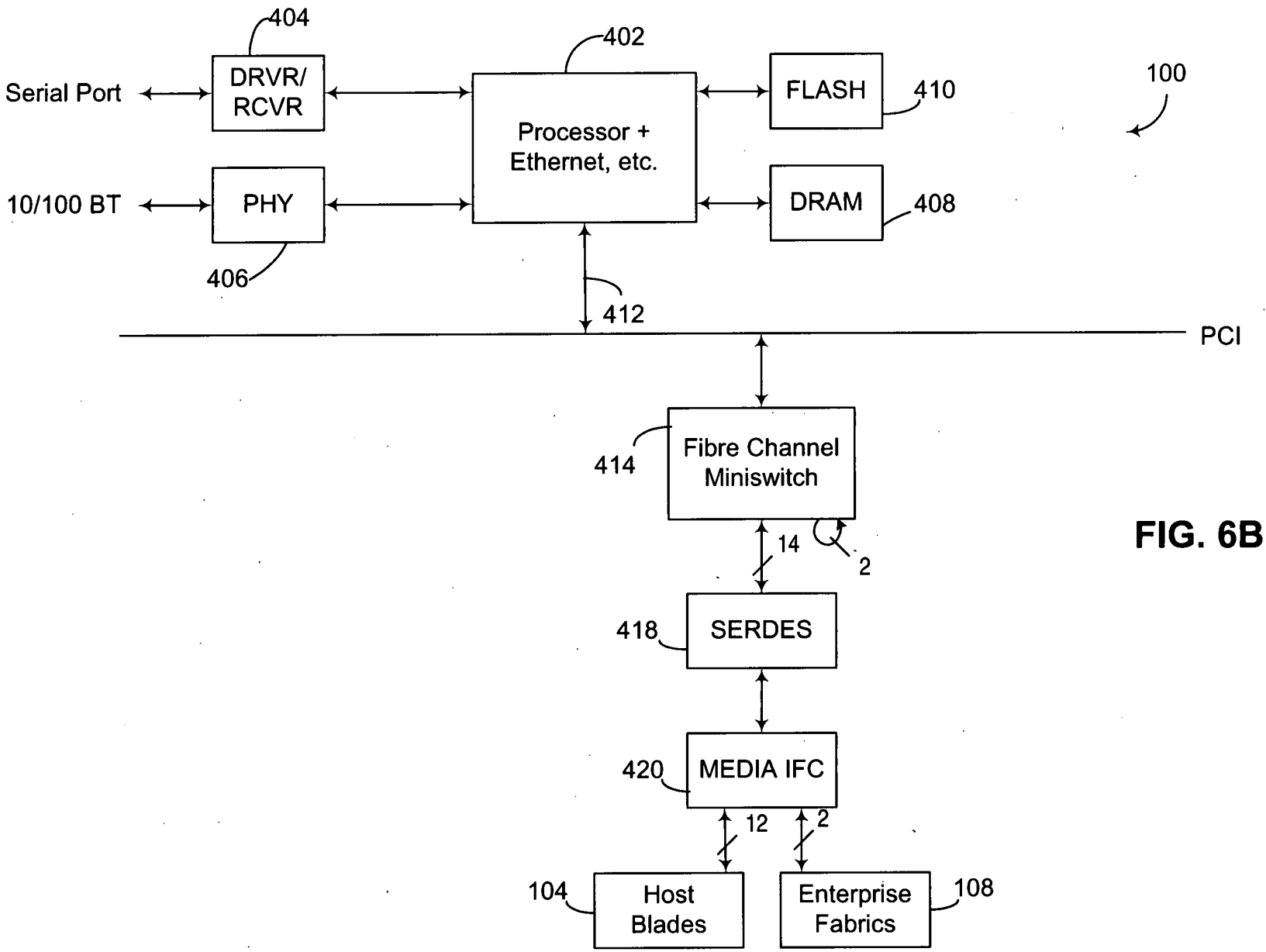

404
402
Serial Port
DRVR/
RCVR
Processor +
Ethernet, etc.
FLASH
410
100
10/100 BT
PHY
DRAM
408
406
412
PCI
414
Fibre Channel
Miniswitch
14
2
418
SERDES
420
MEDIA IFC
12
2
104
Host
Blades
Enterprise
Fabrics
108

FIG. 6B

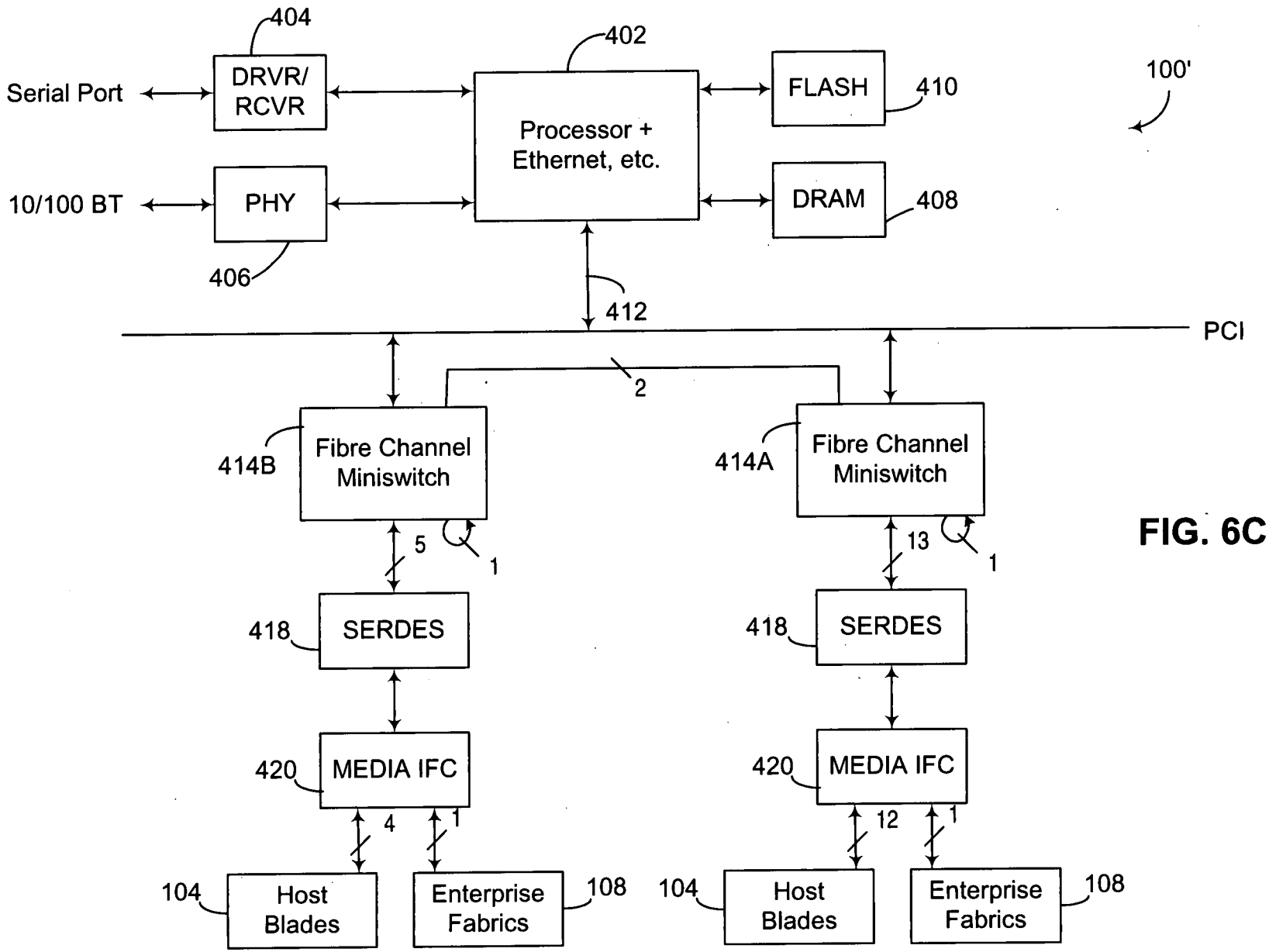

404
Serial Port
DRVR/
RCVR
402
Processor +
Ethernet, etc.
FLASH
410
100'
10/100 BT
PHY
DRAM
408
406
412
PCI
2
414B
Fibre Channel
Miniswitch
414A
Fibre Channel
Miniswitch
5
1
13
1
418
SERDES
418
SERDES
420
MEDIA IFC
420
MEDIA IFC
4
1
12
1
104
Host
Blades
Enterprise
Fabrics
108
104
Host
Blades
Enterprise
Fabrics
108

FIG. 6C

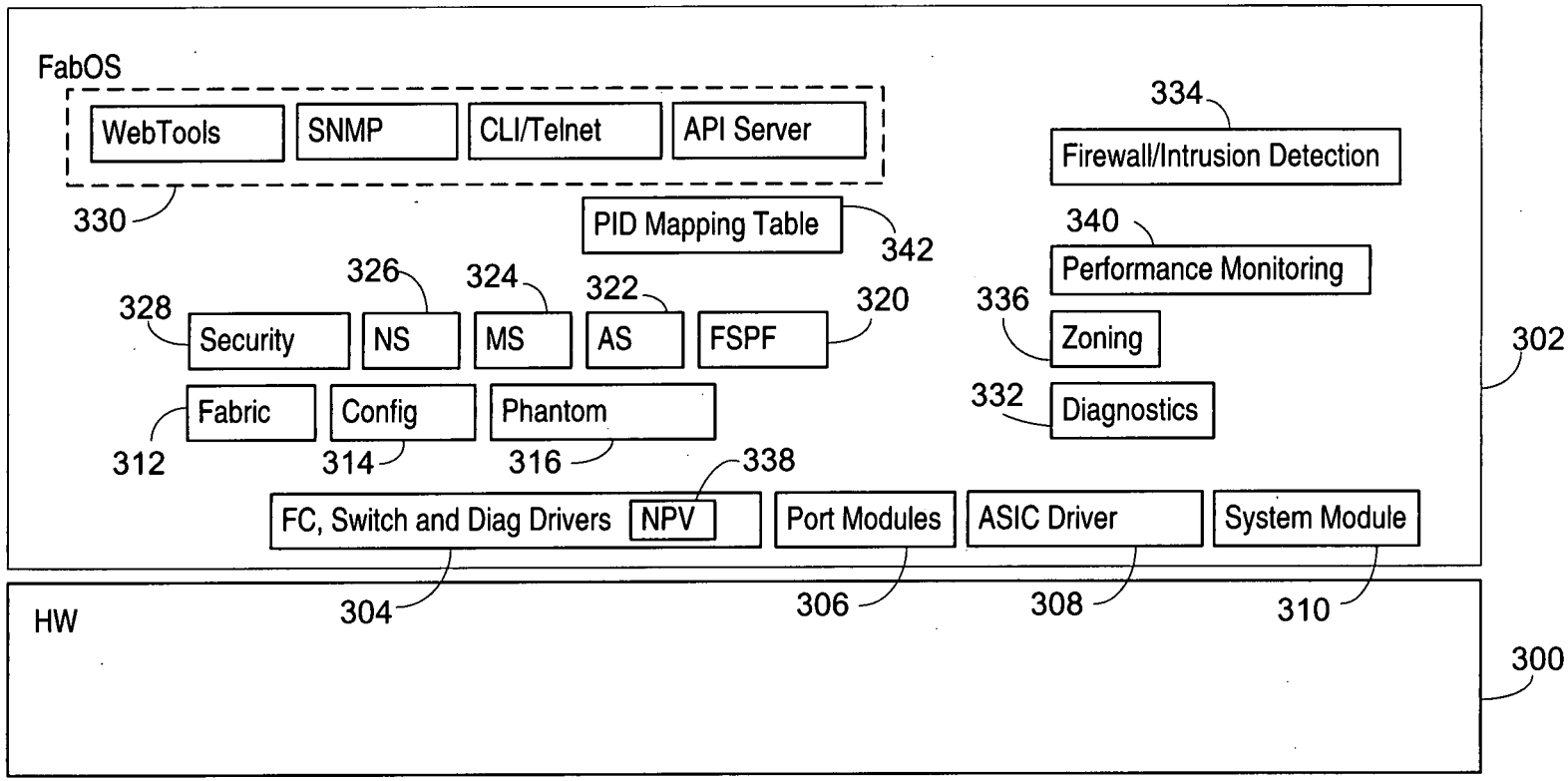

FabOS
WebTools
SNMP
CLI/Telnet
API Server
330
PID Mapping Table
342
334
Firewall/Intrusion Detection
340
Performance Monitoring
326
324
322
328
Security
NS
MS
AS
FSPF
320
336
Zoning
302
332
Diagnostics
Fabric
Config
Phantom
312
314
316
338
FC, Switch and Diag Drivers
NPV
Port Modules
ASIC Driver
System Module
304
306
308
310
HW
300

FIG. 6D

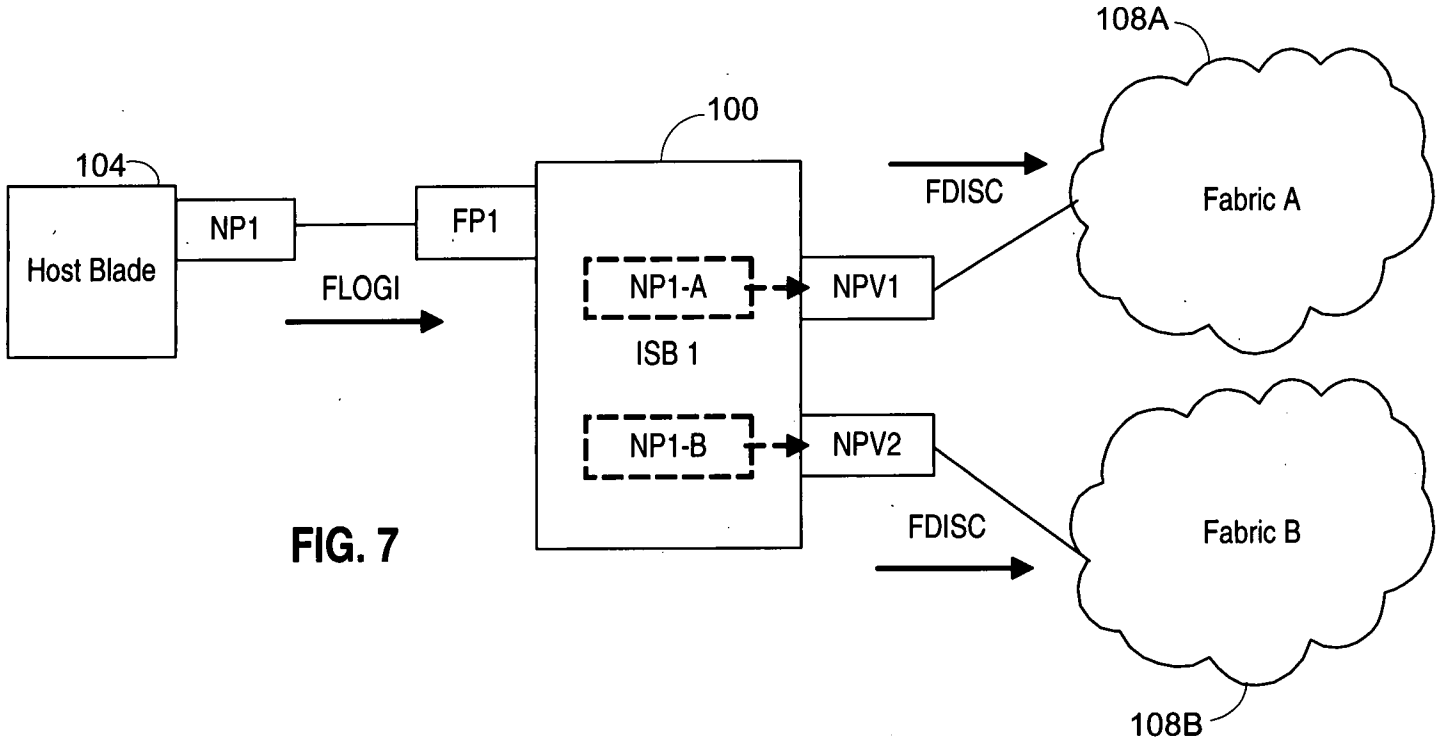
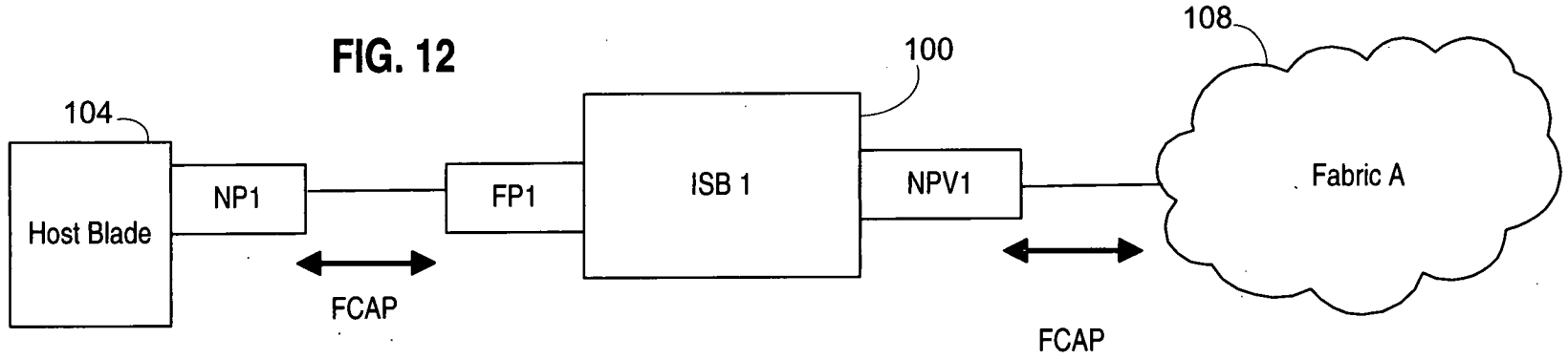
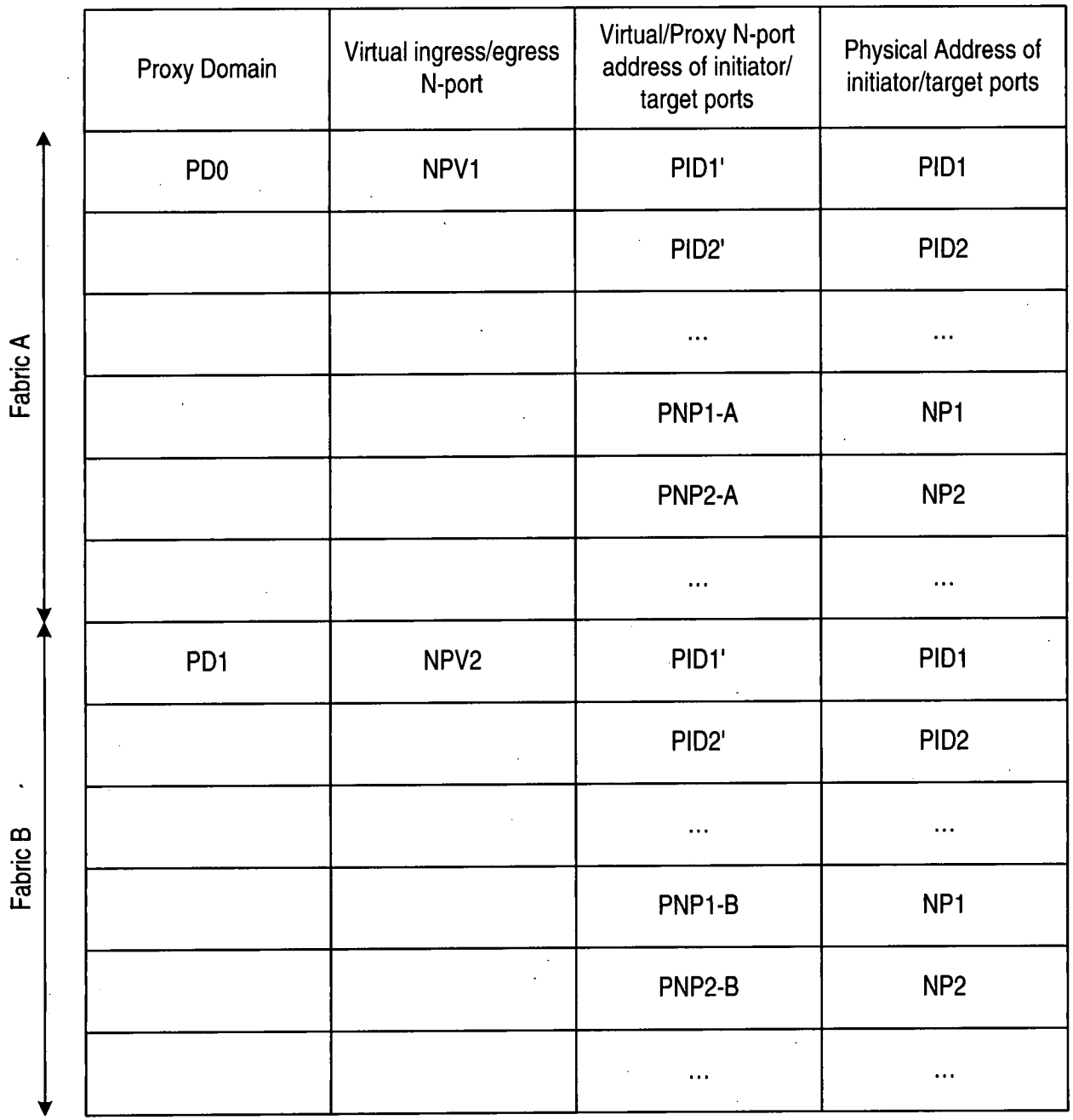

108A
100
104
Host Blade
NP1
FP1
FLOGI
NP1-A
NPV1
ISB 1
FDISC
Fabric A
NP1-B
NPV2
FDISC
Fabric B
108B

FIG. 7

FIG. 12


108
100
104
Host Blade
NP1
FP1
ISB 1
NPV1
Fabric A
FCAP
FCAP



Proxy Domain	Virtual ingress/egress N-port	Virtual/Proxy N-port address of initiator/ target ports	Physical Address of initiator/target ports
PD0	NPV1	PID1'	PID1
		PID2'	PID2
		...	...
		PNP1-A	NP1
		PNP2-A	NP2
		...	...
PD1	NPV2	PID1'	PID1
		PID2'	PID2
		...	...
		PNP1-B	NP1
		PNP2-B	NP2
		...	...

FIG. 8

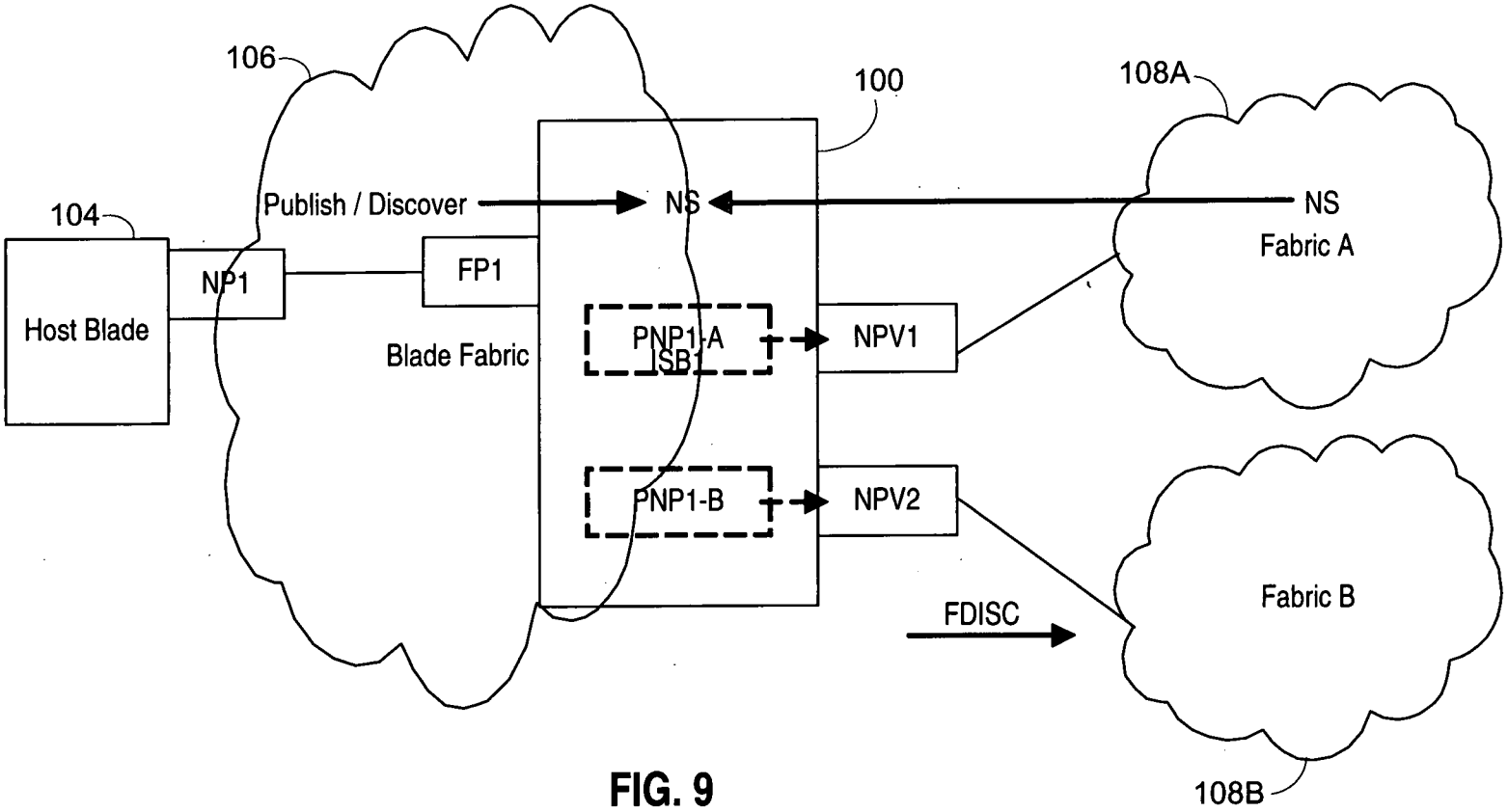

106
100
108A
104
Publish / Discover
NS
NS
Fabric A
NP1
FP1
Host Blade
Blade Fabric
PNP1-A
SB1
NPV1
PNP1-B
NPV2
Fabric B
FDISC
108B

FIG. 9

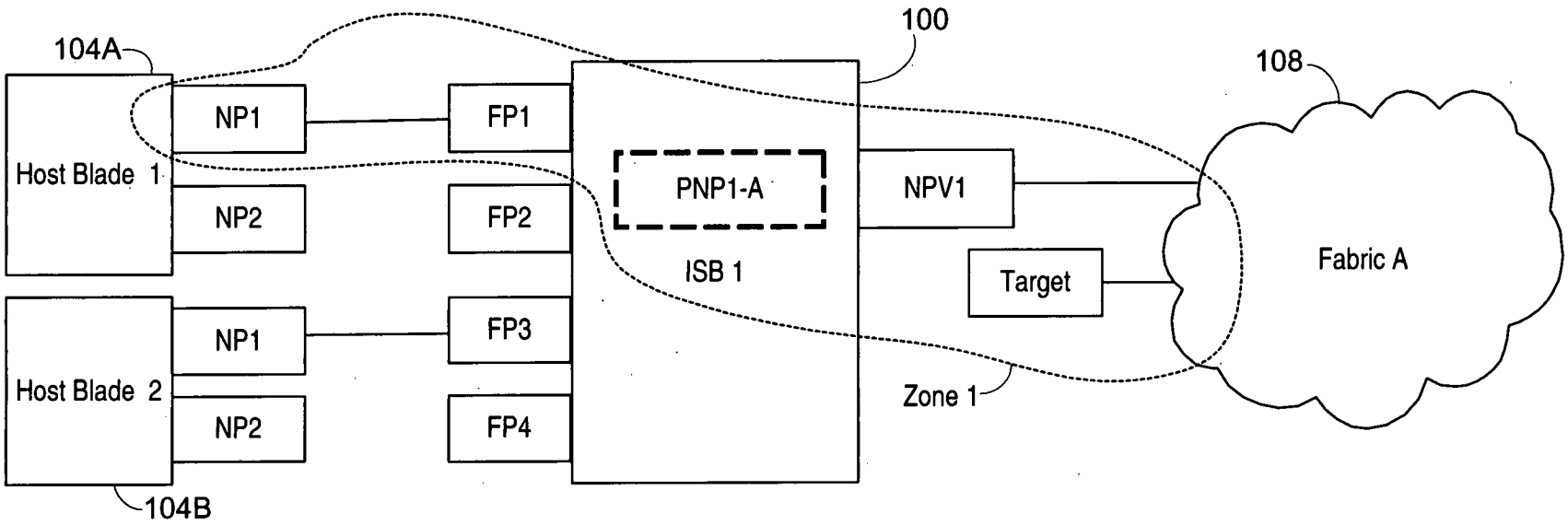

104A
100
108
NP1
FP1
Host Blade 1
NP2
FP2
PNP1-A
NPV1
ISB 1
Target
Fabric A
NP1
FP3
Host Blade 2
NP2
FP4
Zone 1
104B

FIG. 10

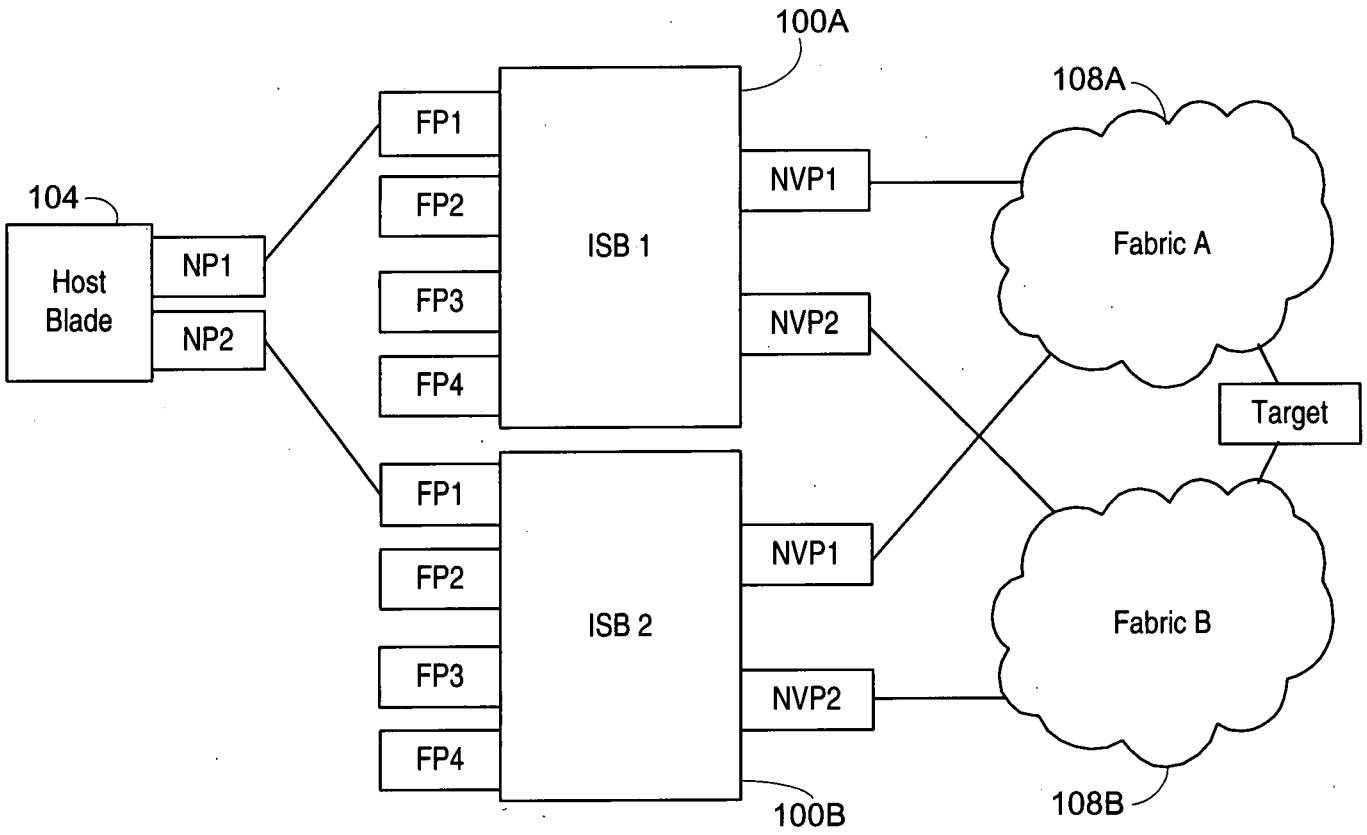

100A
108A
104
FP1
FP2
FP3
FP4
ISB 1
NVP1
NVP2
Host
Blade
NP1
NP2
Fabric A
Target
FP1
FP2
FP3
FP4
ISB 2
NVP1
NVP2
Fabric B
100B
108B

FIG. 11

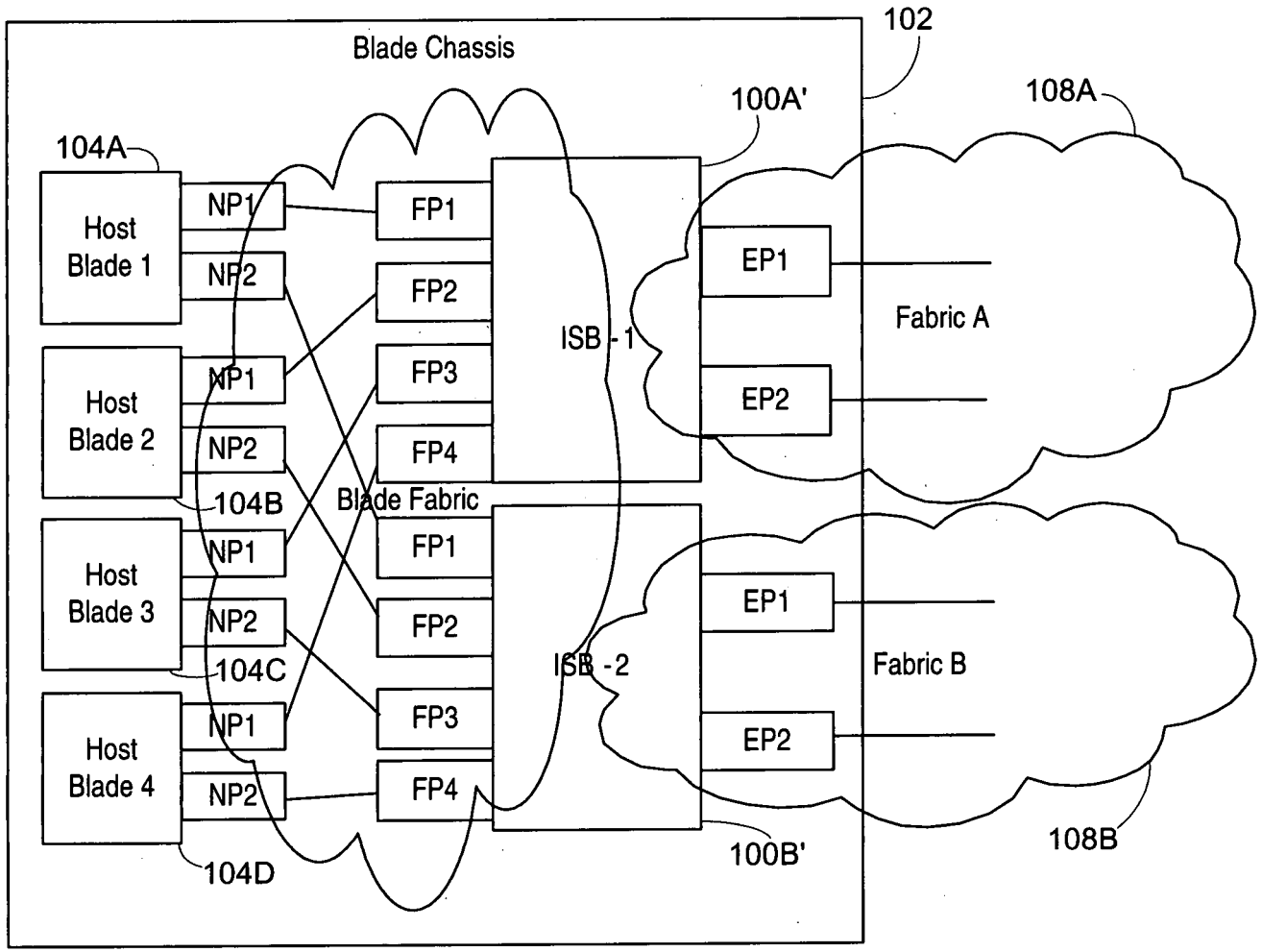

Blade Chassis
102
100A'
108A
104A
Host Blade 1
NP1
NP2
Host Blade 2
NP1
NP2
104B
Host Blade 3
NP1
NP2
104C
Host Blade 4
NP1
NP2
104D
FP1
FP2
FP3
FP4
ISB - 1
Blade Fabric
FP1
FP2
FP3
FP4
ISB - 2
EP1
EP2
Fabric A
EP1
EP2
Fabric B
100B'
108B

FIG. 13